

#### **Huntington Power Plant**

6 miles west of Huntington, Utah on Hwy. 31 P.O. Box 680 Huntington, Utah 84528

April 18, 2018

Mr. Bryce Bird, Director Utah Department of Environmental Quality Division of Air Quality 195 North 1950 West P.O. Box 144820 Salt Lake City, UT 84114-4820

RE:

Updated Notification of Compliance Status 40 CFR 63 SubPart UUUUU – Unit 2, Huntington Power Plant (Title V Permit #1501001004)

Dear Mr. Bird:

Huntington Power Plant's Title V Permit Condition II.B.3.f.3 requires the Huntington Plant submit a Notification of Compliance Status according to the requirements of 40 CFR §63.9(h)(2)(ii); and, must contain all the information specified in 40 CFR §63.10030(e)(1) through (8), as applicable. Huntington Unit 2 recently received confirmation of the Low Emitting Electrical Generating Unit (LEE) status for particulate matter (PM). Therefore, this submittal is intended to update the initial notification with this new PM LEE information and satisfy this requirement.

I am authorized to make this submission on behalf of the owners and operators of the affected source or affected units for which the submission is made. I certify under penalty of law that I have personally examined, and am familiar with, the statements and information submitted in this document and all its attachments. Based on my inquiry of those individuals with primary responsibility for obtaining the information, I certify that the statements and information are to the best of my knowledge and belief true, accurate, and complete. I am aware that there are significant penalties for submitting false statements and information, or omitting statements and information, including the possibility of fine or imprisonment.

Should you have any questions regarding this information, please contact Richard Neilson, Huntington Power Plant Environmental Engineer at (435) 687-4334 or me at (435) 687-4211.

Sincerely.

Darrell Cunningham

Managing Director Huntington Plant

Responsible Official

Enclosure: Updated Notification of Compliance Status – Unit 2

cc: David Barnhisel, w/enclosure

Steve Jensen, w/enclosure

Sara Loiacono, EPA Region VIII

# Huntington Unit 2 Mercury and Air Toxics Standard 40 CFR Part 63 Subpart UUUUU Updated Notification of Compliance Status

### Description of Affected Source 63.10030(e)(1)

Source Boiler Unit #2	Emission Unit ID
Electric Utility Steam Generating Unit, bottom tangentially-fired, Babcock & Wilcox	Emission Unit Name (design and manufacturer name)
Coal-fired unit not low rank virgin coal	Subcategory
4,960 MMBtu/hr	Size: Rated Heat Input Capacity (mmBtu/hr)
Pulse Jet Fabric Filter (baghouse) Wet Flue Gas Desulfurization (wet scrubber) LowNOx burner technology, w/ Separated overfire air	Description of add-on controls
Bituminous Coal, #2 Fuel Oil	Fuels Used
No	Were the fuel(s) determined by PacifiCorp or EPA through a petition process to be a non-waste under 40 CFR 241.3
No	Were the fuel(s) were processed from discarded non-hazardous secondary materials within the meaning of 40 CFR 241.3
Bituminous coal is the primary fuel for the Unit and was burned during the performance tests. #2 Fuel Oil is used for startup fuel, when needed for start-up.	Justification for the selection of fuel(s) burned during performance testing

#### Performance Test Summary 63.10030(e)(2)

	outer operating days.						Owner land
720 = 0.082 lb/mmBtu	Eq.8) ssions rate number of	lb/mmBtu		operating day rolling average		through May 15, 2015	$(SO_2)$
59.365	_	0.20	0.082 lb/mmBtu	30 boiler	SO <sub>2</sub> CEMS	April 16, 2015	Sulfur Dioxide
(Sample Calculation of quarter 2 2015 Run 1)		lb/mmBtu	period		3B, 4, 5, 19		
= 0.006 lb/mmBtu	CO2%vd	0.15	over three year	quarterly run	Methods 1, 2,		
(12.5)	8	lb/mmBtu	Average PM	hours per	using EPA	through quarter 1 2018	Particulate Matter (PM)
4.49E-07 x 1800 x100	E lb/mmBtu	0.030	0.006 lb/mmBtu	3 runs @ 2	Stack Test	Quarter 2 2015	Filterable
	H <sub>max</sub> = Maximum Annual Heat Input of the Unit TBtu/yr MHI = Maximun Heat Input of the Unit mmBtu/hr E <sub>yr</sub> = Average Hg Emission Rate lb/yr						
=0.9 lbs/yr	E=Average Hg Emission Rate						
0.0180 * 50	Eyr= E * HImax						
5,733 * 8,760 1,000,000 = 50.2 TBtu/yr	$= \frac{\text{MHI} * 8,760}{1,000,000 \text{ mm/T}}$	Or Less than 29 lbs per year	0.9 lbs/year				4 9
	Bws =Stack Gas Moisture Content (default) %/100 %CO2vw = Average Stack Gas CO2 Concentration (wet volume percent)						
	E=Average Hg Emission Rate Ib/TBtu Cd = Average Hg Concentration from all traps Ib/dscf Fc =Fuel Factor dscf/mmBtu						
= 0.02 lb/tBtu	(Eq.19-9)	0.12 lb/tBtu		@ 144 hours	Method 30B and ALT-091	2016	
1.3E-12*1800*(1-0.124)*100*10^6 11.2	E = Cd *Fc * (1 - Bws) * 100 * 10^6	1.2 lb/tBtu LEE limit	0.02 lb/tBtu	Five dual trap test runs	Stack Testing using EPA	April 13, 2016 through May 15,	Mercury (Hg)
	Югшша	FIIIII	Test	D'ul auton	9	Test	
Sample Calculation	Calculation	Emission	Results of	Test Runs/	Method of	Performance	Test Parameter
							D 6

Quarterly PM tests have been conducted indicating continued compliance to the emission limit. No fuel analyses were required and no operating limits were established.

## Identification of Compliance Demonstration 63.10030(e)(3)

Pollutant	Method of Demonstration
Mercury	LEE Annual Method 30B 30 day Test
Filterable Particulate Matter	LEE Stack Tests every thirty six months using EPA Reference Methods 1, 2,
	3B, 4, 5, 19
Sulfur Dioxide	SO <sub>2</sub> CEMS

Emissions Averaging 63.10030(e)(4)
Emissions averaging will not be used to demonstrate compliance with applicable emission limits

#### Work Practice Standards 63.10030(e)(5)

Date Boiler Tune Up was Conducted	CMS in service during startup	Clean Fuel Used During Startun
Initial Tune Up	CMS in service during all phases of operation	#2 Fuel Oil Used for Startup Fuel
October 20, 2013	except during monitoring system malfunctions or	,
Subsequent Tune Up	monitoring system out-of-control periods, repairs associated with monitoring system malfunctions or	
December 18, 2015	monitoring system out-of-control periods, and	
	required monitoring system quality assurance or	
Subsequent I une ∪p	quality control activities including, as applicable,	
May 8, 201/	calibration checks and required zero and span	
	adjustments)	

#### Deviations 63.10030(e)(6)

No deviations occurred from any emission limit or work practice standard.

#### Additional Information 63.10030(e)(7)

Initial Hg LEE Method 30B testing occurred from April 13 to May 15, 2016 with a result of 0.02 lb/TBtu average emission rate and a potential of 0.9 lb/yr. Subsequent annual test was performed April 11 to May 22, 2017 with a result of 0.01 lb/TBtu average emission rate and a potential of 0.4 lb/yr.

### Initial PM LEE quarterly testing results summary

	0.006	36 month Average	36 mont
	0.005	2/7/2018	Q1 2018
	0.005	12/6/2017	Q4 2017
	0.008	9/19/2017	Q3 2017
	0.003	5/9/2017	Q2 2017
	0.006	2/8/2017	Q1 2017
0.015 lb/mmBtu	0.003	11/9/2016	Q4 2016
	0.002	8/24/2016	Q3 2016
	0.007	5/10/2016	Q2 2016
	0.005	2/10/2016	Q1 2016
	0.008	12/16/2015	Q4 2015
	0.007	8/12/2015	Q3 2015
	0.007	5/13-14/2015	Q2 2015
	(lb/mmBtu)		
LEE Threshold	Average PM	Test Date	Test ID

## Identification of Startup Definition 63.10030(e)(8)

The affected source will rely on paragraph (1) for the definition of startup.

## Certification Statements 63.10030(e)(5) and 63.10030(e)(7)(ii)

I certify that all applicable emissions limits and work practice standards were met. This EGU complies with the requirements in §63.10021(a) to demonstrate continuous compliance. No secondary materials that are solid waste were combusted in any affected

Darrell J. Cunningham

Plant Managing Director and Responsible Official